

=> fil reg; d que 13

FILE 'REGISTRY' ENTERED AT 11:17:36 ON 27 OCT 2000
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STRUCTURE FILE UPDATES: 26 OCT 2000 HIGHEST RN 299893-04-2
DICTIONARY FILE UPDATES: 26 OCT 2000 HIGHEST RN 299893-04-2

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

L2 25 SEA FILE=REGISTRY ABB=ON GCGTTACTATCCTCTCTATGTG|CACATAGAGAGGAT
AGTAACGC|AGTTTTCCATACTGATTGCCGC|GCGGCAATCAGTATGGAAAAC|AGCTCCCC
AGTCTATTACAGAACTATG|CATAGTTCTGTAATAGACTGGGGAGCT/SQSN
L3 7 SEA FILE=REGISTRY ABB=ON L2 AND SQL<100

=> d cn rn kwic

L3 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN GenBank A83812 (9CI) (CA INDEX NAME)
RN 253515-48-9 REGISTRY
SQL 27

SEQ 1 agctccccag tctattacag aactatg
=====

HITS AT: 1-27

=> d cn rn kwic 2-7; fil capl; s 13

L3 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN GenBank A83796 (9CI) (CA INDEX NAME)
RN 253515-32-1 REGISTRY
SQL 22

SEQ 1 agttttccat actgattgcc gc
=====

HITS AT: 1-22

L3 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN GenBank A83795 (9CI) (CA INDEX NAME)
RN 253515-31-0 REGISTRY
SQL 22

SEQ 1 gcgttactat cctctctatg tg
=====

HITS AT: 1-22

L3 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN GenBank AR019035 (9CI) (CA INDEX NAME)
RN 222653-06-7 REGISTRY
SQL 42

SEQ 1 gggggggcccg gtctagtttt ccatactgat tgccgcaatt ga
=====

HITS AT: 15-36

L3 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN DNA, d(A-G-T-T-T-T-C-C-A-T-A-C-T-G-A-T-T-G-C-C-G-C) (9CI) (CA INDEX NAME)
RN 215308-65-9 REGISTRY
SQL 22

SEQ 1 agttttccat actgattgcc gc
=====

HITS AT: 1-22

L3 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN DNA, d(G-C-G-T-T-A-C-T-A-T-C-C-T-C-T-C-T-A-T-G-T-G) (9CI) (CA INDEX NAME)
RN 215308-64-8 REGISTRY
SQL 22

SEQ 1 gcgttactat cctctctatg tg
=====

HITS AT: 1-22

L3 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2000 ACS
CN DNA, d(A-G-C-T-C-C-C-C-A-G-T-C-T-A-T-T-A-C-A-G-A-A-C-T-A-T-G) (9CI) (CA INDEX NAME)
RN 215308-39-7 REGISTRY
SQL 27

SEQ 1 agctccccag tctattacag aactatg
=====

HITS AT: 1-27

FILE 'CAPLUS' ENTERED AT 11:18:29 ON 27 OCT 2000
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FILE COVERS 1967 - 27 Oct 2000 VOL 133 ISS 18
FILE LAST UPDATED: 26 Oct 2000 (20001026/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Now you can extend your author, patent assignee, patent information, and title searches back to 1907. The records from 1907-1966 now have this searchable data in CAOLD. You now have electronic access to all of CA: 1907 to 1966 in CAOLD and 1967 to the present in CAPLUS on STN.

L4 1 L3

=> d ibib ab hitrn 14 ; fil hom

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1998:709215 CAPLUS

DOCUMENT NUMBER: 129:340509
 TITLE: TaqMan-PCR for the detection of pathogenic Escherichia coli strains
 INVENTOR(S): Pfeffer, Klaus
 PATENT ASSIGNEE(S): Bavarian Nordic Research Institute G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 60 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9848046	A2	19981029	WO 1998-EP2341	19980421
WO 9848046	A3	19990708		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9880144	A1	19981113	AU 1998-80144	19980421
EP 994965	A2	20000426	EP 1998-928211	19980421
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
NO 9905055	A	19991015	NO 1999-5055	19991015
PRIORITY APPLN. INFO.: DK 1997-451 19970422				
WO 1998-EP2341 19980421				

AB The present invention relates to a method for the detection of pathogenic E. coli in a sample comprising PCR amplification of DNA isolated from said sample using oligonucleotide primers specific for pathogenic E. coli. Primers are provided specific for pCVD432 plasmid (enteroaggregative), inv plasmid (enteroinvasive), EAF plasmid (enteropathogenic), shiga-like toxin genes sltI and sltII (enterohemorrhagic), and aea gene (enterotoxigenic). The TaqMan system relies on std. PCR technique with the addn. of a specific internal fluorogenic oligonucleotide probe; the combination of conventional PCR with the Taq polymerase-dependent degrdn. of an internally hybridized oligonucleotide probe also confers specificity to this detection method. The method can be used for diagnosis of E. coli infection of a living animal body, including a human, or for the detection of E. coli contamination of consumables, such as meat, milk, and vegetables.

IT **215308-64-8**
 RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (PCR primer LT-1 for enterotoxigenic E. coli; TaqMan-PCR for the detection of pathogenic Escherichia coli strains)

IT **215308-65-9**
 RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (PCR primer LT-2 for heat-labile toxin gene of enterotoxigenic E. coli; TaqMan-PCR for the detection of pathogenic Escherichia coli strains)

IT **215308-39-7**
 RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (probe for heat-labile toxin gene; TaqMan-PCR for the detection of pathogenic Escherichia coli strains)

RESULT 2
 ECPCVD432/c
 LOCUS ECPCVD432 765 bp DNA BCT 24-JUL-1995
 DEFINITION E.coli plasmid pCVD 432 DNA.
 ACCESSION X81423
 VERSION X81423.1 GI:1052598
 KEYWORDS .
 SOURCE Escherichia coli.
 ORGANISM Escherichia coli
 Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;
 Escherichia.
 REFERENCE 1 (bases 1 to 765)
 AUTHORS Schmidt,H., Knop,C., Franke,S., Aleksic,S., Heesemann,J. and
 Karch,H.
 TITLE Development of PCR for screening of enteroaggregative Escherichia
 coli
 JOURNAL J. Clin. Microbiol. 33 (3), 701-705 (1995)
 MEDLINE 95270697
 REFERENCE 2 (bases 1 to 765)
 AUTHORS Karch,H.
 TITLE Direct Submission
 JOURNAL Submitted (05-SEP-1994) H. Karch, INST. F. HYG.& MIKROBIOL.,
 UNIVERSITAET WUERZBURG, JOSEPH-SCHNEIDER STR.2, BAU 17, D-97080
 WUERZBURG, FRG
 FEATURES Location/Qualifiers
 source 1. .765
 /organism="Escherichia coli"
 /strain="044"
 /isolate="042"
 /db_xref="taxon:562"
 /clone="pCVD432"
 /note="DNA probe for the identification of
 enteroaggregative E. coli"
 BASE COUNT 295 a 105 c 124 g 240 t 1 others
 ORIGIN

Query Match 100.0%; Score 22; DB 2; Length 765;
 Best Local Similarity 100.0%; Pred. No. 1.1;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 taatgtatagaaatccgctgtt 22
 |||||
 Db 695 TAATGTATAGAAATCCGCTGTT 674

SID 8

SID 7: 66-87

ordered

RESULT 6
 ECOELTBH
 LOCUS ECOELTBH 588 bp DNA BCT 21-APR-1996
 DEFINITION E.coli (from human) heat-labile enterotoxin subunit B gene (eltB), complete cds.
 ACCESSION M17874
 VERSION M17874.1 GI:145830
 KEYWORDS eltB gene; enterotoxin.
 SOURCE Escherichia coli (clone: pWD[195,196] and pJL[3,9].) DNA.
 ORGANISM Escherichia coli
 Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae; Escherichia.
 REFERENCE 1 (bases 1 to 588)
 AUTHORS Leong, J., Vinal, A.C. and Dallas, W.S.
 TITLE Nucleotide sequence comparison between heat-labile toxin B-subunit cistrons from Escherichia coli of human and porcine origin
 JOURNAL Infect. Immun. 48 (1), 73-77 (1985)
 MEDLINE 85156481
 COMMENT A long inverted repeat which could be a transcription termination signal is located at positions 517-548.
 FEATURES
 source Location/Qualifiers
 1. .588
 /organism="Escherichia coli"
 /specific_host="Homo sapiens"
 /db_xref="taxon:562"
 /clone="pWD[195,196] and pJL[3,9]."
 sig_peptide 17. .79
 /gene="eltB"
 CDS 17. .391
 /gene="eltB"
 /note="precursor"
 /codon_start=1
 /transl_table=11
 /product="enterotoxin subunit B"
 /protein_id="AAA98064.1"
 /db_xref="GI:145831"
 /translation="MNKVKFYVLF TALLSSLCAHGAPQSITELCSEYHNTQIYTINDK
 ILSYTESMAGKREMVIIITFKSGATFQVEVPGSQHIDSQKKAIERMKD TLRITYLTETK
 IDKLCVWNNKTPNSIAAISMEN"
 gene 17. .391
 /gene="eltB"
 mat_peptide 80. .388
 /gene="eltB"
 /product="enterotoxin subunit B"
 BASE COUNT 216 a 109 c 113 g 150 t
 ORIGIN 1 bp upstream of EcoRI site.

Query Match 100.0%; Score 22; DB 2; Length 588;
 Best Local Similarity 100.0%; Pred. No. 1.4;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 gcgttactatcctctctatgtg 22
 |||
 Db 50 GCGTTACTATCCTCTCTATGTG 71

Seq 102 = RL 368-389

SID 79 = 77-105
 w/one mismatch
 87

RESULT 7
 ECLT87
 LOCUS ECLT87 595 bp DNA BCT 28-OCT-1996
 DEFINITION E.coli LT87 gene for heat-labile enterotoxin.
 ACCESSION X83966
 VERSION X83966.1 GI:1648865
 KEYWORDS heat-labile enterotoxin; LT 87 gene.
 SOURCE Escherichia coli.
 ORGANISM Escherichia coli
 Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;
 Escherichia.
 REFERENCE 1 (bases 1 to 595)
 AUTHORS Germani, Y. and Desperrier, J.M.
 TITLE Nucleotide sequence variations in genes encoding heat labile
 enterotoxins of Escherichia coli isolated in South Pacific
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 595)
 AUTHORS Germani, Y.
 TITLE Direct Submission
 JOURNAL Submitted (17-JAN-1995) Y. Germani, Institut Pasteur, 28 rue du Dr
 Roux, F- 75724 Paris Cedex 15, FRANCE
 COMMENT Related sequence: M15361-3 (Yakamoto).
 FEATURES Location/Qualifiers
 source 1..595
 /organism="Escherichia coli"
 /strain="ETEC LT 87"
 /db_xref="taxon:562"
 gene 205..579
 /gene="LT 87"
 CDS 205..579
 /gene="LT 87"
 /codon_start=1
 /transl_table=11
 /product="heat-labile enterotoxin"
 /protein_id="CAA58800.1"
 /db_xref="GI:1648866"
 /db_xref="SWISS-PROT:P13811"
 /translation="MNKVKFYVLF TALLSSLCAHGAPQSITELCSEYHNTQIYTINDK
 ILSYTESMAGKREMVIIITFKSGATFQVEVPGSQHIDSQKKAIERMKDTRLRITYLTETK
 IDKLCVWNNKTPNSIAAISMEN"
 BASE COUNT 226 a 105 c 113 g 151 t
 ORIGIN

Query Match 100.0%; Score 22; DB 2; Length 595;
 Best Local Similarity 100.0%; Pred. No. 1.4;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 gcgttactatcctctctatgtg 22
 |||||
 Db 238 GCGTTACTATCCTCTCTATGTG 259

missing 1bp 19.

RESULT 8
 ECOELT
 LOCUS ECOELT 774 bp DNA BCT 25-JUN-1996
 DEFINITION E.coli heat labile enterotoxin a 3' end and enterotoxin b (toxB)

gene, complete cds.

ACCESSION J01646

VERSION J01646.1 GI:145828

KEYWORDS enterotoxin.

SOURCE Escherichia coli (strain H10407) DNA.

ORGANISM Escherichia coli
Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;
Escherichia.

REFERENCE 1 (bases 190 to 292)

AUTHORS Yamamoto,T., Tamura,T., Ryoji,M., Kaji,A., Yokota,T. and Takano,T.

TITLE Sequence analysis of the heat-labile enterotoxin subunit B gene
originating in human enterotoxigenic Escherichia coli

JOURNAL J. Bacteriol. 152 (1), 506-509 (1982)

MEDLINE 83007048

REFERENCE 2 (bases 1 to 228)

AUTHORS Yamamoto,T., Tamura,T., Yokota,T. and Takano,T.

TITLE Overlapping genes in the heat-labile enterotoxin operon originating
from Escherichia coli human strain

JOURNAL Mol. Gen. Genet. 188 (2), 356-359 (1982)

MEDLINE 83114628

REFERENCE 3 (bases 190 to 774)

AUTHORS Yamamoto,T. and Yokota,T.

TITLE Sequence of heat-labile enterotoxin of Escherichia coli pathogenic
for humans

JOURNAL J. Bacteriol. 155 (2), 728-733 (1983)

MEDLINE 83265593

COMMENT see also other loci beginning <ecoelt>.

FEATURES

source Location/Qualifiers

1. .774

/organism="Escherichia coli"

/strain="H10407"

/specific_host="Homo sapiens"

/db_xref="taxon:562"

CDS <1. .208

/codon_start=2

/transl_table=11

/product="enterotoxin A"

/protein_id="AAB02981.1"

/db_xref="GI:1395121"

/translation="AWREEPWIHHAPQGCGDSSRTITGDTTCNEETQNLSTIYLRKYQS
KVKRQIFSDYQSEVDIYNRIRNEL"

RBS 195. .197

/gene="toxB"

gene 195. .579

/gene="toxB"

CDS 205. .579

/gene="toxB"

/codon_start=1

/transl_table=11

/product="enterotoxin B"

/protein_id="AAB02982.1"

/db_xref="GI:1395122"

/translation="MNKVKCYVLFALLSSLCAYGAPQSITELCSEYRNTQIYTINDK
ILSYTESMAGKREMVIIITFKSGATFQVEVPGSQHIDSQKKAIERMKDTRLITYLTETK
IDKLCVWNNKTPNSIAAISMEN"

sig_peptide 205. .267

/gene="toxB"

mat_peptide 268.576
/gene="toxB"
/product="enterotoxin B"
BASE COUNT 286 a 142 c 153 g 193 t
ORIGIN

Query Match 100.0%; Score 22; DB 2; Length 774;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 gcgttactatcctctctatgtg 22
|
Db 238 GCGTTACTATCCTCTCTATGTG 259

Seq ID 2^{PC} 556-577

SID 19 = 267-293

RESULT 9

E03421

LOCUS E03421 1148 bp DNA PAT 29-SEP-1997

DEFINITION DNA encoding LTh of entero toxigenic Escherichia coli.

ACCESSION E03421

VERSION E03421.1 GI:2171637

KEYWORDS JP 1992079898-A/1.

SOURCE Escherichia coli.

ORGANISM Escherichia coli

Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;
Escherichia.

REFERENCE 1 (bases 1 to 1148)

AUTHORS Danbara,H. and Abe,A. .

TITLE DNA AND RNA PROBE TO SIMULTANEOUSLY DETECT VIBRIO CHOLERATE AND
ENTEROTOXIGENIC ESCHERICHIA COLI AND DETECTION OF VIBRIO CHOLERA
AND ENTEROGEXIGENIC ESCHERICHIA COLI USING THE SAME DNA AND RNA
PROBE

JOURNAL Patent: JP 1992079898-A 1 13-MAR-1992;

KITASATO INST:THE

COMMENT

OS Escherichia coli

PN JP 1992079898-A/1

PD 13-MAR-1992

PF 23-JUL-1990 JP 1990194208

PI DANBARA HIROFUMI, ABE AKIO

PC C12Q1/68,C07H21/02,C07H21/04,C12N15/11,C12N15/31,C12Q1/04, PC
C12Q1/10,

PC (C12N15/31,C12R1:19), (C12Q1/04,C12R1:63,C12R1:19); CC

strandedness: Double;

CC topology: Linear;

CC hypothetical: No;

CC anti-sense: No;

CC *source: clone=pKAD008;

FH Key Location/Qualifiers

FH

FT misc_feature 1. .1148

FT /note='DNA fragment encoding LTh of entero FT
toxigenic

FT Escherichia coli'

FT sig_peptide 1. .54

FT mat_peptide 55. .774

FT /product='subunit A of LTh'


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FT    CDS                1. .777
FT                                /product='precursor subunit A of LTh' FT
sig_peptide    774. .837
FT    mat_peptide    838. .1145
FT                                /product='subunit B of LTh'
FT    CDS                774. .1148
FT                                /product='precursor of subunit B of LTh'.
FEATURES
  source          Location/Qualifiers
                  1. .1148
                  /organism="Escherichia coli"
                  /db_xref="taxon:562"
BASE COUNT      399 a    205 c    229 g    315 t
ORIGIN

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Query Match          100.0%; Score 22; DB 5; Length 1148;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 gcgttactatcctctctatgtg 22
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Db      807 GCGTTACTATCCTCTCTATGTG 828

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25 RC 1125-1146

19-836-862

RESULT 8

T03448

ID T03448 standard; DNA; 777 BP.

XX

AC T03448;

XX

DT 02-MAY-1996 (first entry)

XX

DE Shigella flexneri thermolabile enterotoxin gene fragment LTf.

XX

KW Thermolabile enterotoxin; subunit-A; subunit-B; detection; probe;

KW LTf fragment; enterobacteria; ss.

XX

OS Shigella flexneri.

XX

PN RU2031948-C1.

XX

PD 27-MAR-1995.

XX

PF 11-DEC-1991; 91RU-0016860.

XX

PR 11-DEC-1991; 91SU-4016860.

XX

PA (NIZH=) NIZHEGOROD EPIDEMIOLOGY MICROBIOLOG INST.

XX

PI Mazepa VN, Skoblo LE, Ulanova TI;

XX

DR WPI; 1995-343066/44.

XX

PT LTf DNA fragment for recognition of thermo:labile enterobacterium

PT enterotoxin gene - can be used as a probe for recognition of

PT LT-toxin DNA gene

XX

PS Claim 1; Columns 3-4; 5pp; Russian.

XX

CC The present sequence is that of the LTf fragment which encodes part

CC of the thermolabile enterotoxin subunit-A sequence and all of the

CC subunit-B sequence of Shigella flexneri. The DNA fragment is useful

CC as a probe for specific detection of toxigenic enterobacteria.

XX

SQ Sequence 777 BP; 288 A; 141 C; 153 G; 195 T; 0 other;

Query Match 100.0%; Score 22; DB 16; Length 777;

Best Local Similarity 100.0%; Pred. No. 0.058;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 gcgttactatcctctctatgtg 22

|||||||

Db 239 gcgttactatcctctctatgtg 260

RESULT 1
 US-08-952-337-3
 ; Sequence 3, Application US/08952337
 ; Patent No. 6019973
 ; GENERAL INFORMATION:
 ; APPLICANT: Holmgren, Jan
 ; APPLICANT: Lebens, Michael R.
 ; TITLE OF INVENTION: HYBRID MOLECULES BETWEEN HEAT-LABILE
 ; TITLE OF INVENTION: ENTEROTOXIN AND CHOLERA TOXIN B SUBUNITS
 ; FILE REFERENCE: 3846/OD758
 ; CURRENT APPLICATION NUMBER: US/08/952,337
 ; CURRENT FILING DATE: 1998-01-05
 ; EARLIER APPLICATION NUMBER: PCT/SE96/00570
 ; EARLIER FILING DATE: 1996-05-02
 ; EARLIER APPLICATION NUMBER: SE 9501682-0
 ; EARLIER FILING DATE: 1995-05-05
 ; NUMBER OF SEQ ID NOS: 6
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 3
 ; LENGTH: 375
 ; TYPE: DNA
 ; ORGANISM: Escherichia coli
 US-08-952-337-3

Query Match 100.0%; Score 22; DB 5; Length 375;
 Best Local Similarity 100.0%; Pred. No. 0.0095;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 gcgttactatcctctctatgtg 22
 |||||
 Db 34 gcgttactatcctctctatgtg 55

Seq ID2= KC 352-373

RESULT 2
 US-08-944-982-3
 ; Sequence 3, Application US/08944982
 ; Patent No. 5869057
 ; GENERAL INFORMATION:
 ; APPLICANT: Edwin P. Rock
 ; TITLE OF INVENTION: Recombinant Vaccines to Break
 ; TITLE OF INVENTION: Self-Tolerance
 ; NUMBER OF SEQUENCES: 3
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Keil & Weinkauff
 ; STREET: 1101 Connecticut Avenue
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.5 inch, 800 KB storage
 ; COMPUTER: Apple Macintosh, 68030 processor
 ; OPERATING SYSTEM: MacOS, version 7.1.1
 ; SOFTWARE: Microsoft Word, version 4.0
 ; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/944,982
; FILING DATE: 07-OCT-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/472,455
; FILING DATE: 07-JUN-1995
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 532 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-944-982-3

Query Match 100.0%; Score 22; DB 3; Length 532;
Best Local Similarity 100.0%; Pred. No. 0.01;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 gcgttactatcctctctatgtg 22
Db 50 GCGTTACTATCCTCTCTATGTG 71

222 of 5102 = 363-388

19-79-105

RESULT 3

US-08-747-410-1

; Sequence 1, Application US/08747410

; Patent No. 5993820

; GENERAL INFORMATION:

; APPLICANT: BAGDASARIAN, Michael

; APPLICANT: IRELAND, James

; TITLE OF INVENTION: CHIMERIC LTB VACCINES

; NUMBER OF SEQUENCES: 12

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt

; STREET: 3100 No. 5993820west Center, 90 South Seventh St

; CITY: Minneapolis

; STATE: MN

; COUNTRY: USA

; ZIP: 55402

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSEQ Version 1.5

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/747,410

; FILING DATE: 12-NOV-1996

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Kettelberger, Denise M

; REGISTRATION NUMBER: 33,924

; REFERENCE/DOCKET NUMBER: 11526.1-US-01

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 612/371-5268
 ; TELEFAX: 612/332-9081
 ; TELEX:
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 587 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: Genomic DNA
 ; HYPOTHETICAL: NO
 ; ANTI-SENSE: NO
 ; FRAGMENT TYPE:
 ; ORIGINAL SOURCE:
 ; FEATURE:
 ; NAME/KEY: Coding Sequence
 ; LOCATION: 16...387
 ; OTHER INFORMATION:
 US-08-747-410-1

Query Match 100.0%; Score 22; DB 4; Length 587;
 Best Local Similarity 100.0%; Pred. No. 0.01;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 gcgttactatcctctctatgtg 22
 |||
 Db 49 GCGTTACTATCCTCTCTATGTG 70

SID2 = RC 367-388

19 76-104
 1 mismatch #7